

L Number	Hits	Search Text	DB	Time stamp
-	566	(709/231).CCLS.	USPAT	2004/08/25 15:55
-	88	(725/148).CCLS.	USPAT	2004/08/25 15:45
-	1	("6,173317").PN.	USPAT	2004/08/25 10:23
-	13	6173317.URPN.	USPAT	2004/08/25 10:23
-	2	6173317.URPN. and (time near stamp)	USPAT	2004/08/25 10:23
-	253	mid-stream	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 09:49
-	33	mid-stream and (begin\$4 and end\$3) and (timestamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 10:51
-	34	mid-stream and (begin\$4 or start\$3) and (finish\$3 or end\$3) and (timestamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 11:16
-	1	mid-stream and (length near stream)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 11:40
-	411	((709/231).CCLS.) and stream\$3	USPAT	2004/08/25 13:25
-	319	((709/231).CCLS.) and stream\$3 and (begin\$5 or start\$3) and (end\$3 or finish\$3)	USPAT	2004/08/25 13:30
-	13	MPEG-1 adj stream	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:49
-	13	MPEG-1 adj stream and time	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:50
-	2	identify\$3 near2 length near stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 14:37
-	1	("6502139").PN.	USPAT	2004/08/25 14:34
-	19	("5421031"   "5532735"   "5604731"   "5606359"   "5610653"   "5640194"   "5694334"   "5701582"   "5751336"   "5752160"   "5793412"   "5815491"   "5845279"   "5850218"   "5884141"   "5899582"   "6018539"   "6115786"   "6122662").PN.	USPAT	2004/08/25 14:35
-	3	6502139.URPN.	USPAT	2004/08/25 14:40
-	603	(709/232).CCLS.	USPAT	2004/08/25 14:49
-	38	(725/101).CCLS.	USPAT	2004/08/25 15:45
-	566	(709/231).CCLS.	USPAT	2004/08/25 15:55
-	411	((709/231).CCLS.) and stream\$3	USPAT	2004/08/25 15:55
-	115	63-bit	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:06
-	8	63-bit and play\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:42

-	3	63-bit near2 file	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:02
-	1274	(709/233,238).CCLS.	USPAT	2004/08/25 17:31
-	460	((709/233,238).CCLS.) and stream\$5	USPAT	2004/08/25 17:32
-	1	("5793980").PN.	USPAT	2004/08/26 11:49
-	1	("20030061344").PN.	US-PGPUB	2004/08/26 12:02
-	9187	(arbitrar\$9 or random\$5) near9 (assign\$3 or preset\$3 or reset\$3 or designat\$3 or referenc\$3) near9 (value or ID or number or identifier)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:13
-	1410	(arbitrar\$9 or random\$5) near9 (assign\$3 or preset\$3 or reset\$3 or designat\$3 or referenc\$3) near9 (value or ID or number or identifier) and stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:13
-	315709	((while or during) near9 (send\$3 or transmission or transmit\$5 or stream\$3 or transfer\$3 or forward\$3))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:38
-	518	((arbitrar\$9 or random\$5) near9 (assign\$3 or preset\$3 or reset\$3 or designat\$3 or referenc\$3) near9 (value or ID or number or identifier) and stream\$3) and (((while or during) near9 (send\$3 or transmission or transmit\$5 or stream\$3 or transfer\$3 or forward\$3)))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:38
-	92	((arbitrar\$9 or random\$5) near9 (assign\$3 or preset\$3 or reset\$3 or designat\$3 or referenc\$3) near9 (value or ID or number or identifier) and stream\$3) and (((while or during) near9 (send\$3 or transmission or transmit\$5 or stream\$3 or transfer\$3 or forward\$3))) and (timestamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:04
-	1	("4529839").PN.	USPAT	2004/08/26 13:05
-	467	colton.inv.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:05
-	63	colton.inv. and (stream\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:17
-	23	colton.inv. and (stream\$3) and (video or audio or media or multimedia or multi-media)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:19
-	740	arbitrar\$3 adj assign\$3 near2 (value or number or identifier or beginning or data)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:58
-	18	arbitrar\$3 adj assign\$3 near2 (value or number or identifier or beginning or data) and ((video or audio or multimedia or digital or media) near2 stream\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:21
-	29	arbitrar\$3 adj assign\$3 near2 (value or number or identifier or beginning or data) and ((during or while) near2 (transmission or sending or transmitting or forwarding))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:24

-	26	(arbitrar\$3 adj assign\$3 near2 (value or number or identifier or beginning or data) and ((during or while) near2 (transmission or sending or transmitting or forwarding))) not (arbitrar\$3 adj assign\$3 near2 (value or number or identifier or beginning or data) and ((video or audio or multimedia or digital or media) near2 stream\$3))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:36
-	50	(725/98).CCLS.	USPAT	2004/08/26 13:37
-	116	(725/118).CCLS.	USPAT	2004/08/26 14:09
-	14	real-time adj streaming adj video	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:39
-	3821	(real-time or live) near2 (transmission or send\$3 or forward\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:43
-	1128	(real-time or live) near2 (transmission or send\$3 or forward\$3) and (arbitrar\$3 or random\$5)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:46
-	614	(real-time or live) near2 (transmission or send\$3 or forward\$3) and (arbitrar\$3 or random\$5) and stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:46
-	551	(real-time or live) near2 (transmission or send\$3 or forward\$3) and (arbitrar\$3 or random\$5) and stream\$3 and (beginning or end or start or finish)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:47
-	16	(real-time or live) near2 (transmission or send\$3 or forward\$3) same (arbitrar\$3 or random\$5) and stream\$3 and (beginning or end or start or finish)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:12
-	19	("5530754"   "5586264"   "5793980"   "5805804"   "5815662"   "5933603"   "6061504"   "6101547"   "6243761"   "6292834"   "6324182"   "6377972"   "6385693"   "6405256"   "6415373"   "6427187"   "6438630"   "6438652"   "6570606"   "2002/0129123").PN.	USPAT	2004/08/26 14:48
-	905	(midstream or mid-stream or (mid adj stream))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:13
-	78	(midstream or mid-stream or (mid adj stream)) same (broadcast\$3 or transmi\$9)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:14
-	9	((midstream or mid-stream or (mid adj stream)) same (broadcast\$3 or transmi\$9)) and (timestamp or time-stamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:30
-	5857	video adj stream	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:30
-	69	(video adj stream) near9 (beginning or end or starting or finish or commencing) same (assign\$3 or designat\$3 or preset\$3 or reset\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:32
-	68	(video adj stream) near9 (beginning or end or starting or finish or commencing) same (assign\$3 or designat\$3 or preset\$3 or reset\$3) and (id or value or number or identifier or mark or trace)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:34

-	35	(video adj stream) near9 (beginning or end or starting or finish or commencing) same (assign\$3 or designat\$3 or preset\$3 or reset\$3) and (id or value or number or identifier or mark or trace) and (live or broadcast\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:38
-	212	(dynamic\$5 or automatic\$5 or "on-the-fly" or "on the fly") near9 (alter\$3 or chang\$3 or modify\$3 or replac\$3 or insert\$3) near9 (timeslot or (time adj slot) or time-slot or timestamp or time-stamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:53
-	142	(dynamic\$5 or automatic\$5 or "on-the-fly" or "on the fly") near5 (alter\$3 or chang\$3 or modify\$3 or replac\$3 or insert\$3) near5 (timeslot or (time adj slot) or time-slot or timestamp or time-stamp or (time adj stamp))	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:54
-	76	(dynamic\$5 or automatic\$5 or "on-the-fly" or "on the fly") near5 (alter\$3 or chang\$3 or modify\$3 or replac\$3 or insert\$3) near5 (timeslot or (time adj slot) or time-slot or timestamp or time-stamp or (time adj stamp)) and stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:16
-	46	(dynamic\$5 or automatic\$5 or "on-the-fly" or "on the fly") near5 (alter\$3 or chang\$3 or modify\$3 or replac\$3 or insert\$3) near5 (timeslot or (time adj slot) or time-slot or timestamp or time-stamp or (time adj stamp)) and stream\$3 and (live or broadcast\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:55
-	15	((("4529839") or ("6377930") or ("6748354") or ("6748440") or ("5991498") or ("5926205") or ("5872936") or ("4763357") or ("5793980") or ("6647425") or ("6449653") or ("6345293") or ("6216265") or ("6151634") or ("5790198"))).PN.	USPAT	2004/08/26 16:01
-	14	((("4529839") or ("6377930") or ("6748354") or ("6748440") or ("5991498") or ("5926205") or ("5872936") or ("4763357") or ("5793980") or ("6647425") or ("6449653") or ("6345293") or ("6216265") or ("6151634") or ("5790198"))).PN.) and stream\$3	USPAT	2004/08/26 16:01
-	37	transmission adj ((live or (real-time)) adj video)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:17
-	16	transmission adj ((live or (real-time)) adj video) and stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:21
-	8	arbitrar\$3 adj assign\$3 adj zero	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:22
-	189	assign\$3 adj zero adj value	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:23
-	5	arbitrar\$3 same assign\$3 adj zero adj value	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:23
-	14	assign\$5 adj (begin\$5 and end\$3)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:14

-	58	assign\$5 adj (begin\$5 or end\$3) near (value or number or ID)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:15
-	15	assign\$5 adj (begin\$5 or end\$3) near (value or number or ID) and stream\$3	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:18
-	34	(MS or microsoft) near2 player and platform	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:20
-	16	(MS or microsoft) adj media near2 player	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:21
-	1	(MS or microsoft) adj media near2 player and (file near length)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:21
-	15	"63" same (file near length)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:22
-	8	("63" near bit) and (file near length)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 10:23



# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 130861**

**TO: Tam (Jenny) T. Phan**  
**Location:**  
**Art Unit : 2144**  
**Monday, August 30, 2004**

**Case Serial Number: 09/716141**

**From: David Holloway**  
**Location: EIC 2100**  
**PK2-4B30**  
**Phone: 308-7794**

**david.holloway@uspto.gov**

### **Search Notes**

Dear Examiner Phan,

Attached please find your search results for above-referenced case.  
Please contact me if you have any questions or would like a re-focused search.

David

Set	Items	Description
S1	629	(STREAMS OR STREAMING? OR WEBCAST? OR STREAM OR STREAMED OR WEB() (CAST OR CASTING) OR REALTIME? OR REAL()TIME OR CONTINUOUS? OR NONSTOP? OR NON()STOP) (2N) (VIDEO? OR MULTIMEDIA? OR MULTI()MEDIA? OR MPG? OR MPEG?)
S2	101	MPEG1 OR MPG1 OR (MPEG OR MPG) () (ONE OR 1)
S3	391	ARBITRAR? OR RANDOM? OR PSEUDORANDOM? OR MIDSTREAM? OR MID-()STREAM?
S4	6	(END OR BEGIN? OR START?) (N) (CODE? OR SIGNAL? OR BIT OR FRAME?)
S5	16098	ASSIGN? OR INSERT? OR EMBED? OR INTEGRAT?
S6	288	MEDIAPLAYER? OR MEDIA()PLAYER? OR WINDOWS()MEDIA?
S7	0	(S1 OR S2) AND S4

File 256:TecInfoSource 82-2004/Jul

Set	Items	Description
S1	26522	(STREAMS OR STREAMING? OR WEBCAST? OR STREAM OR STREAMED OR WEB() (CAST OR CASTING) OR REALTIME? OR REAL()TIME OR CONTINUOUS? OR NONSTOP? OR NON()STOP) (2N) (VIDEO? OR MULTIMEDIA? OR MULTI()MEDIA? OR MPG? OR MPEG?)
S2	2853	MPEG1 OR MPG1 OR (MPEG OR MPG) () (ONE OR 1)
S3	1581348	ARBITRAR? OR RANDOM? OR PSEUDORANDOM? OR MIDSTREAM? OR MID-()STREAM?
S4	3063	(END OR BEGIN? OR START?) (N) (CODE? OR SIGNAL? OR BIT OR FRAME?)
S5	3055961	ASSIGN? OR INSERT? OR EMBED? OR INTEGRAT?
S6	1356	MEDIAPLAYER? OR MEDIA()PLAYER? OR WINDOWS()MEDIA?
S7	0	(S1 OR S2) AND S3 AND S4 AND S5
S8	0	S3 AND S4 AND S5 AND S6
S9	40	(S1 OR S2) AND S4
S10	11	S9 AND (S3 OR S5 OR S6)
S11	28	RD S9 (unique items)
S12	12	S11 NOT PY>2000
S13	7	(S1 OR S2) AND S3 (2N) (START? OR BEGIN? OR LAUNCH? OR END OR ENDPOINT?)
S14	19	S12 OR S13
S15	17	RD (unique items)
S16	15	S15 NOT PY>2000
S17	15	S16 NOT PD>20001117
File	8: Ei Compendex(R)	1970-2004/Aug W4 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online	1861-2004/Jul (c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs.	1966-2004/Jul 12 (c) 2004 EBSCO Publishing
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File	2: INSPEC	1969-2004/Aug W4 (c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus	1985-2004/Aug W1 (c) 2004 Japan Science and Tech Corp (JST)
File	111: TGG Natl. Newspaper Index (SM)	1979-2004/Aug 30 (c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	6: NTIS	1964-2004/Aug W4 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal	1973-2004/Aug W4 (c) 2004 INIST/CNRS
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Aug W4 (c) 2004 Inst for Sci Info
File	62: SPIN(R)	1975-2004/Jul W1 (c) 2004 American Institute of Physics
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Jul (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

17/5/4 (Item 4 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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04758161 E.I. No: EIP96113415212

**Title: Lessons learned on reliable transmission of real - time MPEG -2 streams over ATM**

Author: Basso, Andrea; Civanlar, Mehmet R.; Cash, Glenn L.

Corporate Source: AT&T Bell Labs., Lausanne, Switz

Conference Title: Digital Compression Technologies and Systems for Video Communications

Conference Location: Berlin, Ger Conference Date: 19961007

Sponsor: SPIE - Int Soc for Opt Engineering, Bellingham, WA USA

E.I. Conference No.: 22748

Source: Proceedings of SPIE - The International Society for Optical Engineering v 2952 1996.. p 182-193

Publication Year: 1996

CODEN: PSISDG ISBN: 0-8194-2356-4

Language: English

Document Type: CA; (Conference Article) Treatment: X; (Experimental)

Journal Announcement: 9709W2

**Abstract:** This paper describes a system that has been designed and built at AT&T Bell Labs for studying transmission of **real - time MPEG -2 video** over ATM networks for multi-cast applications. The set-up comprises a hardware **real - time MPEG -2 video**, audio and system encoder, an ATM network adaptation module for MPEG-2 transport over AAL-5, and ATM switch, a software system decoder and a hardware elementary **stream** decoder. The **MPEG -2 transport stream** has been characterized in terms of robustness to errors. This preliminary study showed the higher importance of the structural information of the stream (PES packet headers TS headers, sequence, picture headers, etc.) with respect to the coded video data (motion vectors, DCT coefficients, etc.). A brief study of the current MPEG-2 hardware decoding architectures allowed us to better understand the effects of bit-stream errors on the resulting video quality. In our experiments, while the loss of some structural data such as picture **start codes** led the hardware decoder to loose synchronization or to freeze, the loss of video data only affected the image quality. Furthermore the recovery times from a loss of synchronization were orders of magnitude higher than the recovery from some video data loss. An error-resilient real-time software transport stream decoder has been developed. In multiplex-wide operations (i.e. operations on the entire transport stream) it takes advantage of ring buffers and manages the timing information appropriately. In **video - stream** specific operations it uses resynchronization mechanisms at the picture level which exploit the redundancy of the PES and transport stream syntax. Furthermore time data transfers between the system decoder and the elementary stream decoder are employed. Experiments show that proper use of these methods can significantly improve the system performance. 7 Refs.

**Descriptors:** Image coding; **Video** signal processing; **Real time** systems; Asynchronous transfer mode; Standards; Television transmission; Mathematical transformations; image quality; Synchronization

**Identifiers:** MPEG-2 video; Motion vectors

**Classification Codes:**

716.4 (Television Systems & Equipment); 723.2 (Data Processing); 741.1 (Light/Optics); 902.2 (Codes & Standards); 913.3 (Quality Assurance & Control); 921.3 (Mathematical Transformations)

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software); 741 (Optics & Optical Devices); 902 (Engineering Graphics & Standards); 913 (Production Planning & Control); 921 (Applied Mathematics)

71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 74 (OPTICAL TECHNOLOGY); 90 (GENERAL ENGINEERING); 91 (ENGINEERING MANAGEMENT); 92 (ENGINEERING MATHEMATICS)

17/5/12 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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5034134 INSPEC Abstract Number: B9510-6140C-465, C9510-5260B-257

**Title: Design and performance of a multi- stream MPEG -I system layer encoder/player set**

Author(s): Boucher, J.A.; Yaar, Z.; Rubin, E.J.; Palmer, J.D.; Little, T.D.C.

Author Affiliation: Dept. of Electr. Comput. & Syst. Eng., Boston Univ., MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2417 p.435-46

Publication Date: 1995 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1764 5/95/\$6.00

Conference Title: Multimedia Computing and Networking 1995

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 6-8 Feb. 1995 Conference Location: San Jose, CA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: Current efforts in the area of MPEG-I audio/video synchronization have been limited to single audio, single video applications. The MPEG-I specification includes provisions for the interleaving of up to 16 separate **video streams** with up to 32 distinct audio streams. This paper explores the possible uses of this capability as well as the design of a robust encoder and playback system. Perceived shortfalls within the specification are discussed including the usefulness of time stamps and the lack of sequence start and **end codes** within the audio stream format. We also describe our implementation of a software-only MPEG-I encoder/player set and describe its performance under various configurations. (5 Refs)

Subfile: B C

Descriptors: data compression; encoding; synchronisation; video coding

Identifiers: multistream MPEG-I system layer encoder/player set; audio/video synchronization; **video streams**; robust encoder

Class Codes: B6140C (Optical information, image and video signal processing); B6120B (Codes); C5260B (Computer vision and image processing techniques)

Copyright 1995, IEE

Set	Items	Description
S1	15068	(STREAMS OR STREAMING? OR WEBCAST? OR STREAM OR STREAMED OR WEB() (CAST OR CASTING) OR REALTIME? OR REAL()TIME OR CONTINUOUS? OR NONSTOP? OR NON()STOP) (2N) (VIDEO? OR MULTIMEDIA? OR MULTI()MEDIA? OR MPG? OR MPEG?)
S2	2998	MPEG1 OR MPG1 OR (MPEG OR MPG) () (ONE OR 1)
S3	259120	ARBITRAR? OR RANDOM? OR PSEUDORANDOM? OR MIDSTREAM? OR MID- ( )STREAM?
S4	21034	(END OR BEGIN? OR START?) (N) (CODE? OR SIGNAL? OR BIT OR FRAME?)
S5	995633	ASSIGN? OR INSERT? OR EMBED? OR INTEGRAT?
S6	1618	MEDIAPLAYER? OR MEDIA()PLAYER? OR WINDOWS()MEDIA?
S7	0	(S1 OR S2) (10N)S3(10N)S4(10N)S5
S8	3	(S1 OR S2) (10N)S3(10N)S4
S9	0	S3(12N)S4(12N)S6
S10	160	(S1 OR S2) (10N)S4
S11	27	S10 AND IC=G06F?
S12	3912	S3(2N) (START OR STARTING OR STARTED OR STARTS OR BEGIN? OR LAUNCH? OR END OR ENDS OR ENDING OR ENDPOINT?)
S13	10	(S1 OR S2) (10N)S12
S14	6	S2(10N) (SURVEIL? OR SECURIT?)
S15	2	S11 AND IC=G06F-015?
S16	43	S8 OR S11 OR S13 OR S14
S17	43	IDPAT (sorted in duplicate/non-duplicate order)
S18	42	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2004/Aug W03  
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040826,UT=20040819  
(c) 2004 WIPO/Univentio

18/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01435553

Digital broadcast recording/reproducing apparatus  
Digitales Fernseh-Aufnahme/Wiedergabe-Gerat  
Appareil d'enregistrement/de reproduction de distribution de television  
numerique

PATENT ASSIGNEE:

Kabushiki Kaisha Toshiba, (213134), 1-1, Shibaura 1-chome, Minato-ku,  
Tokyo 105, (JP), (Applicant designated States: all)

INVENTOR:

Nagata, Hiroyuki, c/o Toshiba Corporation, Intellectual Prop. Div., 1-1  
Shibaura 1-chome, Minato-ku, Tokyo, (JP)  
Sakamoto, Noriya, c/o Toshiba Corporation, Intellectual Prop. Div., 1-1  
Shibaura 1-chome, Minato-ku, Tokyo, (JP)  
Yamada, Masahiro, c/o Toshiba Corporation, Intellectual Prop. Div., 1-1  
Shibaura 1-chome, Minato-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Henkel, Feiler & Hanzel (100401), Mohlstrasse 37, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1217845 A2 020626 (Basic)

EP 1217845 A3 040804

APPLICATION (CC, No, Date): EP 2001130315 011219;

PRIORITY (CC, No, Date): JP 2000384742 001219

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-009/804

ABSTRACT WORD COUNT: 191

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200226	971
SPEC A	(English)	200226	7012
Total word count - document A			7983
Total word count - document B			0
Total word count - documents A + B			7983

...SPECIFICATION at least one of a Payload Unit Start Indicator contained in the TS and a **Random** Access Indicator contained in an Adaptation Field, or at least one of a Sequence Header Code, a Group **Start Code** and a Picture **Start Code** contained in the **video stream** for detecting the prescribed reproduction unit of the video signal.

Moreover, in the digital broadcast...Moreover, what is necessary is to detect Payload Unit Start Indicator in a TS header, **Random** Access Indicator in an adaptation field, or either one of Sequence Header Code, Group **Start Code** and Picture **Start Code** in a **video data stream**, in order to detect a picture head portion at the time of recording operation.

Fig...

...CLAIMS at least one of a Payload Unit Start Indicator contained in the TS and a **Random** Access Indicator contained in an Adaptation Field, or at least one of a Sequence Header Code, a Group **Start Code** and a Picture **Start Code** contained in the **video stream** for detecting the prescribed reproduction unit of the video signal.

9. A digital broadcast recording...

18/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01372310

**Resource allocating and service providing over a wireless network**  
**Ressourcenzuweisung und Dienstbereitstellung in einem drahtlosen Netzwerk**  
**Allocation de ressources et fourniture de services dans un réseau sans fil**  
PATENT ASSIGNEE:

Nokia Corporation, (2963881), Keilalahdentie 4, 02150 Espoo, (FI),  
(Applicant designated States: all)

INVENTOR:

Siren, Ritva, Korppaantie 6 B, 00300 Helsinki, (FI)

LEGAL REPRESENTATIVE:

Brax, Matti Juhani (85201), Berggren Oy Ab, P.O. Box 16, 00101 Helsinki,  
(FI)

PATENT (CC, No, Kind, Date): EP 1168880 A2 020102 (Basic)  
EP 1168880 A3 021204

APPLICATION (CC, No, Date): EP 2001660079 010430;

PRIORITY (CC, No, Date): FI 201574 000630

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04Q-007/38; H04Q-007/22

ABSTRACT WORD COUNT: 103

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200201	981
SPEC A	(English)	200201	5629
Total word count - document A			6610
Total word count - document B			0
Total word count - documents A + B			6610

...SPECIFICATION of such a service is file download, if the download  
protocol allows the download to **begin** at an **arbitrary** position of the  
file. Another example is **real - time video** wherein the subscriber  
wants to see what is happening now, instead of requesting transmission  
from...

18/3,K/5 (Item 5 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01262967

METHOD OF DETERMINING ACCESS POSITION ON RECORDING MEDIUM AND METHOD OF  
MANAGING RECORDING MEDIUM  
METHODE ZUR BESTIMMUNG DER ZUGRIFFSPOSITION AUF EIN AUFNAHMEDIUMUND  
METHODE ZUR VERWALTUNG EINES AUFNAHMEDIUMS  
PROCEDE DE DETERMINATION DE POSITION D'ACCES SUR UN SUPPORT  
D'ENREGISTREMENT ET PROCEDE DE GESTION DU SUPPORT D'ENREGISTREMENT

PATENT ASSIGNEE:

Sharp Kabushiki Kaisha, (260715), 22-22, Nagaike-cho, Abeno-ku,  
Osaka-shi, Osaka 545-8522, (JP), (Applicant designated States: all)

INVENTOR:

IWANO, Yuri, 2-24-7-A217, Honda-cho, Midori-ku, Chiba-shi, Chiba 266-0005  
, (JP)

LEGAL REPRESENTATIVE:

Brown, Kenneth Richard et al (28831), R.G.C. Jenkins & Co. 26 Caxton  
Street, London SW1H 0RJ, (GB)

PATENT (CC, No, Kind, Date): EP 1206135 A1 020515 (Basic)  
WO 200110119 010208

APPLICATION (CC, No, Date): EP 2000948324 000728; WO 2000JP5116 000728

PRIORITY (CC, No, Date): JP 99214980 990729

DESIGNATED STATES: DE; ES; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-005/85

ABSTRACT WORD COUNT: 152

NOTE:

Figure number on first page: 001

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200220	2503
SPEC A	(English)	200220	32266
Total word count - document A			34769
Total word count - document B			0
Total word count - documents A + B			34769

...SPECIFICATION will be reproduced in synchronization with the video data.

When using a disk with an **MPEG stream** recorded thereon and playback from an **arbitrary** frame is **started** or a special playback such as reproducing arbitrarily selected frames is implemented, it is impossible ...with the sequential order of EUs in the EUS.

When using a disk with an **MPEG stream** recorded thereon playback from an **arbitrary** frame is **started** or a special playback such as reproducing arbitrarily selected frames is implemented, it is impossible ...

18/3,K/10 (Item 10 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00991424

Start code **detecting apparatus for video data stream**  
**Vorrichtung zur Startkodedetektierung fur Videodatenstrom**  
**Appareil de detection de code de depart pour le flux de donnees video**  
PATENT ASSIGNEE:

Discovision Associates, (260275), 2355 Main Street, Suite 200, Irvine, CA  
92614, (US), (Applicant designated States: all)

INVENTOR:

Wise, Adrian Philip, 10 Westbourne Cottages, Frenchay, Bristol BS16 1NA,  
(GB)

Sothoran, Martin William, The Ridings, WickLane Stinchcombe, Dursley,  
Gloucestershire GL11 6BD, (GB)

Robbins, William Philip, 19 Springhill, Cam, Gloucestershire GL11 5PE,  
(GB)

Finch, Helen Rosemary, Tyley, Coombe, Wotton-under-edge, Gloucester GL12  
7ND, (GB)

Boyd, Kevin James, 21 Lancashire Road, Bristol, BS7 9DL, (GB)

LEGAL REPRESENTATIVE:

Vuillermoz, Bruno et al (72791), Cabinet Laurent & Charras B.P. 32 20,  
rue Louis Chirpaz, 69131 Ecully Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 896477 A2 990210 (Basic)  
EP 896477 A3 990922

APPLICATION (CC, No, Date): EP 98202175 950228;

PRIORITY (CC, No, Date): GB 9405914 940324

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IE; IT; LI; NL

RELATED PARENT NUMBER(S) - PN (AN):

EP 674443 (EP 95301301)

INTERNATIONAL PATENT CLASS: H04N-007/24; **G06F-013/00** ; **G06F-009/38**

ABSTRACT WORD COUNT: 95

NOTE:

Figure number on first page: 61

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9906	578
SPEC A	(English)	9906	126716
Total word count - document A			127294
Total word count - document B			0
Total word count - documents A + B			127294

Start code **detecting apparatus for video data stream**  
...INTERNATIONAL PATENT CLASS: **G06F-013/00** ...  
... **G06F-009/38**

...SPECIFICATION machine for handling a plurality of separately encoded bit  
streams arranged as a serial bit **stream** of digital bits and having  
separately encoded pairs of **start codes** and data carried in the  
serial bit stream, a Start Code Detector subsystem having first...1 Start  
codes

As is well known in the art, MPEG and H.261 coded **video streams**  
contain identifiable bit patterns called **start codes**. A similar  
function is served in JPEG by marker codes. Start/marker codes identify  
significant...value between 0 and 7.

The bit count is approximate, as some elements of the **video stream**  
will already have been Tokenized (e.g., the **start codes**) and,  
therefore includes non-data Tokens.

A.12.10 Counter flushed too early  
If a...

18/3,K/29 (Item 29 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

01135018 \*\*Image available\*\*

**VIDEO VIEWING SYSTEM AND METHOD**  
**SYSTEME ET PROCEDE DE VISUALISATION VIDEO**

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA  
Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated  
states except: US)

Patent Applicant/Inventor:

KANG I-Chih, c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL, NL  
(Residence), NL (Nationality), (Designated only for: US)  
SNIJDER Freddy, c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL, NL  
(Residence), NL (Nationality), (Designated only for: US)  
DE LANGE Alphonsus A J, c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL,  
NL (Residence), NL (Nationality), (Designated only for: US)

Legal Representative:

GROENENDAAL Antonius W M (agent), Philips Intellectual Property &  
Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200457867 A1 20040708 (WO 0457867)  
Application: WO 2003IB5463 20031121 (PCT/WO IB03005463)  
Priority Application: EP 200280375 20021219

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC  
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4956

Fulltext Availability:

Detailed Description

Detailed Description

... fill the various pipe-lines in the system and to restart the decoding  
process, often **starting** from an **arbitrary** point of time in the  
incoming **video stream** which does not permit decoding to start  
immediately.

An alternative is to realize video mode...

18/3,K/32 (Item 32 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

01009105 \*\*Image available\*\*

**REMOTE SURVEILLANCE SYSTEM**  
**SYSTEME DE SURVEILLANCE A DISTANCE**

Patent Applicant/Assignee:

A4S TECHNOLOGIES INC, 3973 MT Highway 35, Kalispell, MT 59901, US, US  
(Residence), US (Nationality)

Inventor(s):

SIEMENS Michael G, 574 Yoeman Hall, Kalispell, MT 59901, US,  
SITKINS Daniel F, 275 N. Many Lakes Drive, Kalispell, MT 59901, US,  
KIERSTEAD Peter E, 2981 Browns Meadow, Kalispell, MT 59901, US,

Legal Representative:

FOREST Carl A (et al) (agent), Patton Boggs LLP, P. O. Box 270930,  
Louisville, CO 80027-5015, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200339144 A2-A3 20030508 (WO 0339144)

Application: WO 2002US35170 20021101 (PCT/WO US0235170)

Priority Application: US 2001335926 20011101; US 2002415905 20021003

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11462

Fulltext Availability:

Claims

French Abstract

...l'usage judiciaire. Quatre videos peuvent etre synchronisees trame par  
trame a des fins de **surveillance** simultanee. Un flux **MPEG - 1** est  
envoye en temps reel par un dispositif sans fil a destination du QG. Une  
...

Claim

... An audio/visual surveillance system as in claim 3 wherein said  
compression system is an **MPEG - 1** compression system.

6 An audio/visual **surveillance** system as in claim I wherein said system  
further comprises a first audio source producing...

18/3,K/37 (Item 37 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00817129 \*\*Image available\*\*

**SERVICE TRANSMISSION IN A PACKET DATA NETWORK**  
**TRANSMISSION DE SERVICE DANS UN RESEAU DE DONNEES PAR PAQUETS**

Patent Applicant/Assignee:

NOKIA OYJ, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence), FI  
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

PAILA Toni, Everstinkuja 1 C 66, FIN-02600 Espoo, FI, FI (Residence), FI  
(Nationality), (Designated only for: US)  
RISSANEN Kari, Sunankalliontie 94, FIN-02760 Espoo, FI, FI (Residence),  
FI (Nationality), (Designated only for: US)

Legal Representative:

KOLSTER OY AB (agent), Iso Roobertinkatu 23, P.O. Box 148, FIN-00121  
Helsinki, FI,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200150689 A1 20010712 (WO 0150689)  
Application: WO 2000FI1165 20001229 (PCT/WO FI0001165)  
Priority Application: FI 992851 19991231

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CR CU  
CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ  
EE EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL  
IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO  
NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR TT TZ UA UG  
US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 3158

Fulltext Availability:

Detailed Description

Detailed Description

... of such a service is file download, if the download protocol allows  
the download to **begin** at an **arbitrary** position of the file. Another  
example is **real - time video** wherein the subscriber wants to see what  
is happening now, instead of requesting transmis-  
sion...

18/3,K/41 (Item 41 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00381458

**METHOD AND SYSTEM FOR TRANSMITTING REAL-TIME VIDEO**  
**PROCEDE ET SYSTEME DE TRANSMISSION ET/OU DE RECUPERATION D'INFORMATION**  
**AUDIO ET VIDEO EN TEMPS REEL PAR DES SYSTEMES DE TRANSMISSION LIMITES**  
**EN PERFORMANCE**

Patent Applicant/Assignee:

THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS,  
CAMPBELL Roy H,  
TAN See-Mong,  
XIE Dong,  
CHEN Zhigang,

Inventor(s):

CAMPBELL Roy H,  
TAN See-Mong,  
XIE Dong,  
CHEN Zhigang,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9722201 A2 19970619  
Application: WO 96US19226 19961212 (PCT/WO US9619226)  
Priority Application: US 958531 19951212

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP KR RU US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 13228

Main International Patent Class: **G06F-005/06**

Fulltext Availability:

Detailed Description

Detailed Description

... to embed hyperlinks into video streams. The specification of a hyperlink for a object within **video streams** includes several parameters@

1 - The **start frame** where the object appears and the object's position.

2. The end frame where the...

Set	Items	Description
S1	7530	(STREAMS OR STREAMING? OR WEBCAST? OR STREAM OR STREAMED OR WEB() (CAST OR CASTING) OR REALTIME? OR REAL()TIME OR CONTINUOUS? OR NONSTOP? OR NON()STOP) (2N) (VIDEO? OR MULTIMEDIA? OR MULTI()MEDIA? OR MPG? OR MPEG?)
S2	578	MPEG1 OR MPG1 OR (MPEG OR MPG) () (ONE OR 1)
S3	231122	ARBITRAR? OR RANDOM? OR PSEUDORANDOM? OR MIDSTREAM? OR MID- ( )STREAM?
S4	31589	(END OR BEGIN? OR START?) (N) (CODE? OR SIGNAL? OR BIT OR FRAME?)
S5	1801747	ASSIGN? OR INSERT? OR EMBED? OR INTEGRAT?
S6	412	MEDIAPLAYER? OR MEDIA()PLAYER? OR WINDOWS()MEDIA?
S7	1	(S2 OR S1) AND S3 AND S4 AND S5
S8	3	(S1 OR S2) AND S3 AND S4
S9	0	S3 AND S4 AND S6
S10	0	S4 AND S5 AND S6
S11	0	S6 AND S4
S12	107	(S1 OR S2) AND S4
S13	1	S12 AND IC=G06F-015?
S14	10	S12 AND IC=G06F?
S15	1418	S3(2N) (START? OR BEGIN? OR LAUNCH? OR END OR ENDS OR ENDING)
S16	3	(S1 OR S2) AND S15
S17	15	S7 OR S8 OR S13 OR S14 OR S16
S18	15	IDPAT (sorted in duplicate/non-duplicate order)
S19	14	IDPAT (primary/non-duplicate records only)
S20	20	S2 AND (SURVEILLANCE? OR SECURIT?)
S21	4	S20 AND IC=G06F?
S22	18	S21 OR S19
S23	18	IDPAT (sorted in duplicate/non-duplicate order)
S24	18	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200455  
(c) 2004 Thomson Derwent

24/5/2 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015940255 \*\*Image available\*\*  
WPI Acc No: 2004-098096/200410  
XRPX Acc No: N04-078190

**Computer based priority progress multi cast streaming system for  
multimedia distribution, regulates transmission of packets according to  
time stamp based priority and stores packets based on bandwidth  
availability**

Patent Assignee: KRASIC C C (KRAS-I); WALPOLE J (WALP-I)

Inventor: KRASIC C C; WALPOLE J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030236904	A1	20031225	US 2002177864	A	20020619	200410 B

Priority Applications (No Type Date): US 2002177864 A 20020619

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030236904	A1	31	G06F-015/16	

Abstract (Basic): US 20030236904 A1

NOVELTY - A stream of media packets containing the time stamps and multimedia presentations is transmitted to the clients through a server side pipeline. The packet transmission is regulated based on the priority defined by the time sequences of other packets. The packets are stored at respective transmission nodes based on the transmission bandwidth availability. The packets are ordered in real time basis according to the time stamps at client side pipelines.

USE - For priority based multi cast streaming of multimedia like audio and video over heterogeneous computer networks like internet for TV broadcasting, video on demand and **surveillance** services.

ADVANTAGE - Allows simultaneous distribution of packets from single source to arbitrary clients having varying levels of connectivity. Enables controlling the traffic congestion reliably without any risk of congestion collapse due to effective use of protocols.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of priority control mechanism.

priority control mechanism (180)

buffer (182)

adaptation buffer (184)

regulator (188)

pp; 31 DwgNo 4/20

Title Terms: COMPUTER; BASED; PRIORITY; PROGRESS; MULTI; CAST; STREAM;  
SYSTEM; DISTRIBUTE; REGULATE; TRANSMISSION; PACKET; ACCORD; TIME; STAMP;  
BASED; PRIORITY; STORAGE; PACKET; BASED; BANDWIDTH; AVAILABLE

Derwent Class: T01; W01; W04

International Patent Class (Main): G06F-015/16

File Segment: EPI

24/5/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014486576 \*\*Image available\*\*  
WPI Acc No: 2002-307279/200235  
XRPX Acc No: N02-240203

Video structure editor selects dividing point of each segment composed of several frames and displays start and end frames of each segment, based on which structure information of video stream is changed

Patent Assignee: JISEDAI JOHO HOSO SYSTEM KENYUJO KK (JISE-N); RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001223944	A	20010817	JP 200032458	A	20000209	200235 B
JP 3515939	B2	20040405	JP 200032458	A	20000209	200424

Priority Applications (No Type Date): JP 200032458 A 20000209

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001223944	A		23	H04N-005/262	
JP 3515939	B2		21	H04N-005/262	Previous Publ. patent JP 2001223944

Abstract (Basic): JP 2001223944 A

NOVELTY - The hierarchical structure of a video stream is displayed using structure information, from which frames in a range, which are to be reproduced, are selected. The continuous frames of preset number are displayed in single tier. A selector selects dividing point of a segment composed of several frames. The start and end frames of each segment are displayed, based on which the structure information is changed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recording medium stored with video structure editing program.

USE - Video structure editor.

ADVANTAGE - The structure of video stream is reorganized effectively by manual operation.

DESCRIPTION OF DRAWING(S) - The figure shows the continuous frame display window.

pp; 23 DwgNo 9/18

Title Terms: VIDEO; STRUCTURE; EDIT; SELECT; DIVIDE; POINT; SEGMENT; COMPOSE; FRAME; DISPLAY; START; END; FRAME; SEGMENT; BASED; STRUCTURE; INFORMATION; VIDEO; STREAM; CHANGE

Derwent Class: T01; W04

International Patent Class (Main): H04N-005/262

International Patent Class (Additional): G06F-017/30 ; H04N-005/76

File Segment: EPI

24/5/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014320958 \*\*Image available\*\*  
WPI Acc No: 2002-141660/200219  
XRPX Acc No: N02-107132

**Computer assembly code generating apparatus for image processing routine,  
has translator which outputs processor specific code for processing  
multimedia input data based on received abstract representation**

Patent Assignee: STMICROELECTRONICS INC (SGSA ); LABISENT IP INC (LABI-N);  
SGS THOMSON MICROELTRN INC (SGSA )

Inventor: SIGMUND U

Number of Countries: 027 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1172727	A2	20020116	EP 2001305958	A	20010710	200219 B
JP 2002132513	A	20020510	JP 2001212263	A	20010712	200246

Priority Applications (No Type Date): US 2000614635 A 20000712

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1172727	A2	E	29	G06F-009/45	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2002132513	A	27	G06F-009/45	
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Abstract (Basic): EP 1172727 A2

NOVELTY - The **startup code** (11) of an application program (13) outputs a corresponding generic abstract representation on reception of data **stream** including **multimedia** routine. A translator (17) receives the abstract representation and outputs processor specific code for processing multimedia input data.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for assembly code generating method.

USE - For generating processor instruction sequences for image processing routines using multimedia enhanced instructions.

ADVANTAGE - The translation is executed during program startup, without causing a significant delay.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of computer system used for translating multimedia routine.

**Startup code** (11)

Application program (13)

Translator (17)

pp; 29 DwgNo 1/1

Title Terms: COMPUTER; ASSEMBLE; CODE; GENERATE; APPARATUS; IMAGE; PROCESS;  
ROUTINE; TRANSLATION; OUTPUT; PROCESSOR; SPECIFIC; CODE; PROCESS; INPUT;  
DATA; BASED; RECEIVE; ABSTRACT; REPRESENT

Derwent Class: T01

International Patent Class (Main): G06F-009/45

International Patent Class (Additional): G06F-009/44 ; G06T-001/20;

H04N-007/32

File Segment: EPI

24/5/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013815242 \*\*Image available\*\*  
WPI Acc No: 2001-299454/200131  
XRPX Acc No: N01-214763

**Moving picture experts group data stream processing method in computer system, involves using memory reference objects instead of memory copies, and minimizing memory copying, allocation and deallocation of objects**  
Patent Assignee: RAVISENT TECHNOLOGIES INC (RAVI-N); STMICROELECTRONICS INC (SGSA )

Inventor: LANGER R; SIGMUND U; WOLFF R M  
Number of Countries: 087 Number of Patents: 010  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200064186	A2	20001026	WO 2000US8771	A	20000331	200131 B
AU 200041897	A	20001102	AU 200041897	A	20000331	200131
GB 2363279	A	20011212	WO 2000US8771	A	20000331	200205
			GB 200123396	A	20010928	
EP 1166566	A2	20020102	EP 2000921604	A	20000331	200209
			WO 2000US8771	A	20000331	
US 6366970	B1	20020402	US 99283947	A	19990401	200226
US 6373898	B1	20020416	US 99287535	A	19990406	200232
JP 2002542549	W	20021210	JP 2000613199	A	20000331	200301
			WO 2000US8771	A	20000331	
EP 1276331	A2	20030115	EP 2000921604	A	20000331	200306
			EP 20026387	A	20000331	
US 6567557	B1	20030520	US 99467552	A	19991210	200336
GB 2363279	B	20031022	WO 2000US8771	A	20000331	200373
			GB 200123396	A	20010928	

Priority Applications (No Type Date): US 99467552 A 19991210; US 99283947 A 19990401; US 99287535 A 19990406; US 99342527 A 19990629

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200064186	A2	E	122	H04N-007/26	
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW					
AU 200041897	A			H04N-007/26	Based on patent WO 200064186
GB 2363279	A			H04N-007/62	Based on patent WO 200064186
EP 1166566	A2	E		H04N-007/26	Based on patent WO 200064186
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 6366970	B1			G06F-013/14	
US 6373898	B1			H04N-007/12	
JP 2002542549	W	140		G06F-009/46	Based on patent WO 200064186
EP 1276331	A2	E		H04N-007/36	Div ex application EP 2000921604 Div ex patent EP 1166566
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 6567557	B1			G06K-009/36	
GB 2363279	B			H04N-007/62	Based on patent WO 200064186

Abstract (Basic): WO 200064186 A2

NOVELTY - The data processing method involves using memory reference objects instead of memory copies, whenever possible, and queues with lists of references to data blocks. The memory copying, allocation and deallocation of objects are minimized.

DETAILED DESCRIPTION - A data block object is generated, that references address of input data, on address where the output data are post processed, and the status of input and output memory references. Idle, input, limbo and output queues are used to refer data blocks. The idle queue stores a cache of currently unused data block objects to

facilitate recycling of objects and to minimize allocation and deallocation of data block objects. The input queue stores incoming data blocks, until each block is processed. The limbo queue stores the localized streams larger than a single data block to be stored for further global processing prior to being placed in the output queue. The output queue stores the processed resultant data blocks.

INDEPENDENT CLAIMS are also included for the following:

- (a) **MPEG2** data **stream** decompression apparatus;
- (b) **start code** scanning method of data stream;
- (c) **start codes** locating method in data stream;
- (d) **start code** scanner;
- (e) **start codes** locating apparatus;
- (f) **MPEG2** data **stream** decoding method;
- (g) **MPEG2** system;
- (h) **MPEG2** data **stream** decompressing method;
- (i) **MPEG2** data **stream** decoder

USE - For decompression of high speed moving picture experts group 2 data stream in computer system, for multi-byte search e.g. for locating patterns in streaming data, scanning a real time stream of data to locate **start code** prefix in **MPEG2** data **stream** and streams using exact same **start code** paradigm and for real time streaming applications such as digital satellite broadcast e.g. DSS, DVB, primestar, dish network and also for digital video disk (DVD).

ADVANTAGE - Since references are made to incoming streaming data packets rather than copying the incoming data, memory copies are minimized. Minimizes computation by minimizing the amount of memory copying and number of allocations and deallocations of objects, and hence maximum performance is achieved. Makes CPU time available for implementing the features such as software picture within picture, visually powerful but CPU intensive sarnoff video effects, simultaneous viewing and recording, interactive web accessing, background electronic program guide (EPG) processing, HDTV video rendering and software motion compensation, easily. Minimizes complexity by use of separate threads having separate and specific duties.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic block diagram of optimal handling and manipulation of high speed data stream.

pp; 122 DwgNo 3/10

Title Terms: MOVE; PICTURE; GROUP; DATA; STREAM; PROCESS; METHOD; COMPUTER; SYSTEM; MEMORY; REFERENCE; OBJECT; INSTEAD; MEMORY; COPY; MINIMISE; MEMORY; COPY; ALLOCATE; OBJECT

Derwent Class: W02; W04

International Patent Class (Main): **G06F-009/46** ; **G06F-013/14** ;

**G06K-009/36**; **H04N-007/12**; **H04N-007/26**; **H04N-007/62**

International Patent Class (Additional): **H04N-007/32**; **H04N-007/36**;

**H04N-007/50**; **H04N-007/62**

File Segment: EPI

24/5/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012611410 \*\*Image available\*\*  
WPI Acc No: 1999-417514/199935  
Related WPI Acc No: 2002-555980  
XRPX Acc No: N99-311569

**Video signal decoding apparatus for data stream into series of images for  
video conferencing system**

Patent Assignee: KWAN K W (KWAN-I); VOOIS P A (VOOI-I)

Inventor: KWAN K W; VOOIS P A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5910827	A	19990608	US 97806312	A	19970226	199935 B

Priority Applications (No Type Date): US 97806312 A 19970226

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5910827	A		14	G06F-011/00	

Abstract (Basic): US 5910827 A

NOVELTY - A decoder (204) has a processor, which decodes data streams into number of sets of image data and identifies a corrupted data segment in current set of image data. The corrupted segment is replaced with a replacement data segment generated as function of previous sets of image data. The processor selectively stores current sets of image data in two frame buffers (206).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for artifact concealment method.

USE - For video conferencing system.

ADVANTAGE - Avoids missing of **start code** by maintaining a running count of consecutive zeros in the data stream.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the decoding apparatus.

Decoder (204)

Frame buffers (206)

pp; 14 DwgNo 4/6

Title Terms: VIDEO; SIGNAL; DECODE; APPARATUS; DATA; STREAM; SERIES; IMAGE;  
VIDEO; SYSTEM

Derwent Class: T01; W01; W02; W04

International Patent Class (Main): G06F-011/00

International Patent Class (Additional): H04N-007/68

File Segment: EPI

24/5/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012508855 \*\*Image available\*\*  
WPI Acc No: 1999-314960/199927  
XRPX Acc No: N99-235415

**System for continuously recording video signals, e.g. for security**  
Patent Assignee: FUJITSU LTD (FUJIT )  
Inventor: KOBAYASHI T  
Number of Countries: 026 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 917376	A2	19990519	EP 98302326	A	19980326	199927 B
JP 11150700	A	19990602	JP 97313012	A	19971114	199932
US 6108728	A	20000822	US 9842845	A	19980317	200042

Priority Applications (No Type Date): JP 97313012 A 19971114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 917376	A2	E	44	H04N-009/804	
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI					
LT LU LV MC MK NL PT RO SE SI					
JP 11150700	A		36	H04N-005/765	
US 6108728	A			G06F-013/00	

Abstract (Basic): EP 917376 A2

NOVELTY - In the inventive system, an analogue video signal from e.g. camera 10 is converted into digital form by real-time encoder (12). Video server (16), which outputs to plural storage devices (18-1,18-2...18-n), inputs the digital video signals for real-time storage in any of the devices. The stored signals may subsequently be read out to reproducing terminal apparatus (20). The encoded input signals are stored in transit by long-time record-processing unit (14) which outputs into a selected device through the video server. Thus continuous recording of the encoded digital data may be carried out, without breaks while switching devices.

USE - For unmanned monitoring of abnormal conditions, such as collapse of environmental earth structures, for preventing natural disasters, also for **security** monitoring purposes, etc.

ADVANTAGE - By continuously recording high/low picture quality data in parallel, the high quality may be read out for analysis if required, but the low quality preserved as long-term record, enabling re-use of the high quality recording medium, and avoiding drop-out gaps in recorded material during switching changeovers.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the inventive system.

Input analogue signal camera (10)  
real-time encoder to e.g. **MPEG - 1** , MPEG-2 standard (12)  
long-time recording terminal apparatus (14)  
video server switching signals to recording devices (16)  
computer-controlled video output reproducing apparatus (20)  
system management control server (22)  
Asynchronous Transfer Network for data interconnection.

(24,26,28,30)

pp; 44 DwgNo 1/27

Title Terms: SYSTEM; CONTINUOUS; RECORD; VIDEO; SIGNAL; SECURE

Derwent Class: W02; W04

International Patent Class (Main): **G06F-013/00** ; H04N-005/765;  
H04N-009/804

International Patent Class (Additional): H04N-005/92; H04N-007/18;  
H04N-007/24

File Segment: EPI

24/5/11 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011776145 \*\*Image available\*\*  
WPI Acc No: 1998-193055/199817  
XRPX Acc No: N98-152833

MPEG - 1 data synchronisation method in MPEG -2 transport stream -  
involves searching MPEG -2 transport stream for packet start code  
prefix and storing data associated with PES into buffer, and examining  
PES packet header, if packet is video, to determine if PTS is present

Patent Assignee: STELLAR ONE CORP (STEL-N)  
Inventor: DOKIC M V  
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5726989	A	19980310	US 95554146	A	19951106	199817 B

Priority Applications (No Type Date): US 95554146 A 19951106

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5726989	A	21	G06F-017/00	

Abstract (Basic): US 5726989 A

The method involves searching an MPEG -2 transport stream for a packet start code prefix. If the PES packet is a video PES packet, it is determined if a video PTS is present. The data associated with the PES packet is stored into a buffer. If the PES packet is a video PES packet that includes a video PTS in its header the video data in the PES packet is examined during storage to locate the first occurrence of a picture start code .

Upon locating the first occurrence of a picture start code , a flag is set indicating the correspondence between the video PTS and the identified picture start code , and the video data remaining in the video PES packet is stored without further examination. Blocks of the video data are transmitted from the buffer to the video decoder in known lengths. Each block includes a flag indicative of whether the identified video PTS corresponds to a picture start code within that block, if a picture start code is present in that block. If the PES packet does not include a video PTS in its header, blocks of the video data are transmitted from the buffer to the video decoder in known lengths.

ADVANTAGE - Synchronises MPEG - 1 data carried in MPEG -2 transport stream with respect to clock so they are properly decoded by MPEG - 1 decoder.

Dwg.4/6

Title Terms: DATA; SYNCHRONISATION; METHOD; TRANSPORT; STREAM; SEARCH;  
TRANSPORT; STREAM; PACKET; START; CODE; PREFIX; STORAGE; DATA; ASSOCIATE;  
PES; BUFFER; PES; PACKET; HEADER; PACKET; VIDEO; DETERMINE; PRESENT

Derwent Class: T01; W02; W04

International Patent Class (Main): G06F-017/00

File Segment: EPI

24/5/12 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011490824 \*\*Image available\*\*  
WPI Acc No: 1997-468729/199743  
XRPX Acc No: N97-391126

Image reproducing apparatus for MPEG standard system - has CPU which manages video encoder to start output of obtained and transformed signal when frame counter computed value corresponds to value determined in relation to sequence number of frame to be displayed

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9219838	A	19970819	JP 9625659	A	19960213	199743 B

Priority Applications (No Type Date): JP 9625659 A 19960213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9219838	A		12	H04N-005/92	

Abstract (Basic): JP 9219838 A

The apparatus has an input buffer (1) that temporarily stores an input **MPEG image stream**. An **MPEG decoder** (2) decodes the stored **MPEG image stream**, and outputs an obtained pixel data with a vertical synchronisation signal. A frame counter (3) counts the vertical synchronisation signal output by the decoder.

A video encoder (4) transforms and outputs the decoded pixel data as an analogue video signal. When the counted value of the frame counter corresponds to a value determined in relation to the sequence number of a frame which should be displayed, a CPU (5) manages the video encoder to start outputting of the signal obtained and transformed.

ADVANTAGE - Enables **starting** of **arbitrary** frame from displays of **MPEG image stream**. Enables display of still image by independently producing arbitrary frames. Generates still image with resolution of small flickering when movement of screen is large. Prevents image of stream, still stored in frame memory, from being displayed during image reproduction.

Dwg.1/10

Title Terms: IMAGE; REPRODUCE; APPARATUS; STANDARD; SYSTEM; CPU; MANAGE; VIDEO; ENCODE; START; OUTPUT; OBTAIN; TRANSFORM; SIGNAL; FRAME; COUNTER; COMPUTATION; VALUE; CORRESPOND; VALUE; DETERMINE; RELATED; SEQUENCE; NUMBER; FRAME; DISPLAY

Index Terms/Additional Words: MOVING; PICTURE; EXPERT; GROUP; CENTRAL; PROCESSOR; UNIT

Derwent Class: W04

International Patent Class (Main): H04N-005/92

International Patent Class (Additional): H04N-005/937; H04N-007/24

File Segment: EPI

16/5/10 (Item 10 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015875739 \*\*Image available\*\*  
WPI Acc No: 2004-033570/200403  
Related WPI Acc No: 2004-013668; 2004-111142  
XRPX Acc No: N04-026663

**Decoder for communication system, has engine that decodes bitstream  
modified by preprocessor, and smoothing buffer that provides bitstream to  
preprocessor to inverse anti- start code emulation**

Patent Assignee: BROADCOM CORP (BROA-N); HSIUN V T (HSIU-I); MACINNIS A G  
(MACI-I)

Inventor: MACINNIS A; HSIUN V T; MACINNIS A G  
Number of Countries: 032 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030219072	A1	20031127	US 2002380520	P	20020514	200403 B
			US 2002382267	P	20020520	
			US 2002273744	A	20021018	
EP 1365592	A2	20031126	EP 200311420	A	20030520	200403

Priority Applications (No Type Date): US 2002273744 A 20021018; US  
2002380520 P 20020514; US 2002382267 P 20020520

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030219072	A1		9	H04N-007/12	Provisional application US 2002380520

Provisional application US 2002382267

EP 1365592 A2 E 13 H04N-007/26

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030219072 A1

NOVELTY - The decoder has an input for receiving a bit stream  
excluding indications of starting point of each row. A preprocessor  
(525) modifies the bitstream and generates the indications. A  
decompression engine (535) decodes the modified bitstream. The  
bitstream of the compressed video data represents a picture and a  
smoothing buffer (520) provides the bitstream to the preprocessor to  
inverse anti- **start code** emulation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a  
method of decoding a bitstream.

USE - Used for decoding compressed video data in a communication  
system.

ADVANTAGE - The bitstream is preprocessed prior to decompression,  
thereby facilitating multi-row decoding of compressed video data and  
decoding of entropy coded data. The anti- emulation process **inserts**  
data according to a specified algorithm, thereby preventing **video**  
elementary **stream** data from accidentally having strings of bits that  
match a start prefix code.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of  
the decoder.

Input data stream (142)  
System layer processor (510)  
Smoothing buffer (520)  
Pre-processor (525)  
Decompression engine (535)  
pp; 9 DwgNo 5/5

Title Terms: DECODE; COMMUNICATE; SYSTEM; ENGINE; DECODE; BITSTREAM;  
MODIFIED; SMOOTH; BUFFER; BITSTREAM; INVERSE; ANTI; START; CODE;  
EMULATION

Derwent Class: T01; W04

International Patent Class (Main): H04N-007/12; H04N-007/26

File Segment: EPI

16/5/12 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015726250 \*\*Image available\*\*  
WPI Acc No: 2003-788450/200374  
XRPX Acc No: N03-631757

**Data recording device e.g. for video data, assigns digital video frame sequence for continuous frames to record lengths of erased data along with frame numbers of starting frame and number of frames on optical disk**

Patent Assignee: SONY CORP (SONY ); HAMADA T (HAMA-I); KATO M (KATO-I)  
Inventor: HAMADA T; KATO M  
Number of Countries: 032 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200383868	A1	20031009	WO 2003JP3796	A	20030327	200374 B
AU 2003227249	A1	20031013	AU 2003227249	A	20030327	200435
US 20040153948	A1	20040805	WO 2003JP3796	A	20030327	200452
			US 2003479449	A	20031202	

Priority Applications (No Type Date): JP 2002100349 A 20020402  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200383868	A1	J	75	G11B-027/034	
Designated States (National): AU CA CN JP KR US					
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR					
AU 2003227249	A1			G11B-027/034	Based on patent WO 200383868
US 20040153948	A1			G11C-029/00	

Abstract (Basic): WO 200383868 A1

NOVELTY - The device **assigns** a digital video frame (DVF) sequence for continuous frames, when audio- **video** (AV) **stream** file is edited. The data of the erased frame remains at head and end of the sequence. The lengths (lds0,lds1,tds0,tds1) of the erased data are recorded in an optical disk along with the frame numbers (ofn0,ofn1), of the **starting frame** and the number of the frames (nf0,nf1).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) data recording method;
- (2) data reproduction device;
- (3) data reproduction method;
- (4) information recording medium;
- (5) computer readable medium storing data recording/reproduction program; and
- (6) data recording/reproducing program.

USE - For digital video recording/reproduction device for recording video data on an optical disk.

ADVANTAGE - Accurately identifies a reproduction position when editing the data on the optical disk.

DESCRIPTION OF DRAWING(S) - The figure shows the data frame sequence.

lengths (lds0,lds1,tds0,tds1)  
number of frames (nf0,nf1)  
frame numbers (ofn0,ofn1)  
pp; 75 DwgNo 19/31

Title Terms: DATA; RECORD; DEVICE; VIDEO; DATA; **ASSIGN** ; DIGITAL; VIDEO; FRAME; SEQUENCE; CONTINUOUS; FRAME; RECORD; LENGTH; ERASE; DATA; FRAME; NUMBER; START; FRAME; NUMBER; FRAME; OPTICAL; DISC

Derwent Class: W04

International Patent Class (Main): G11B-027/034; G11C-029/00

International Patent Class (Additional): G11B-020/10; G11B-020/12;

G11B-027/00; H04N-005/782; H04N-005/92

File Segment: EPI

16/5/18 (Item 18 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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015214811 \*\*Image available\*\*  
WPI Acc No: 2003-275348/200327  
XRPX Acc No: N03-218596

**Video and audio samples synchronizing system for multimedia distribution,  
assigns timestamp to each audio sample with respect to data structure,  
and renders with video data synchronously**

Patent Assignee: DIDERIKSEN T (DIDE-I); FELLER C (FELL-I); HARRIS G  
(HARR-I); NOVAK M J (NOVA-I); OLSON K J (OLSO-I)

Inventor: DIDERIKSEN T; FELLER C; HARRIS G; NOVAK M J; OLSON K J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020172377	A1	20021121	US 2001817902	A	20010326	200327 B

Priority Applications (No Type Date): US 2001817902 A 20010326

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020172377	A1	26	H03G-005/00	

Abstract (Basic): US 20020172377 A1

NOVELTY - The audio samples output by respective audio sources are processed by a processor, by **assigning** timestamp to each sample for maintaining desired data structure. The processed samples are rendered and characterized with video data in synchronization with audio samples.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) **media player** ;
- (2) audio sample processing system;
- ( 3 ) video data provision method; and
- (4) computer readable medium storing visual effect providing program.

USE - For synchronizing video and audio samples in **media player** (claimed) during distribution of multimedia content through Internet.

ADVANTAGE - Enables presenting different media types to user in an **integrated** and organized manner, by performing unified rendering in same user interface area. Promotes user experience, by providing visual effects exactly relevant to audio.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of client computer.

pp; 26 DwgNo 3 /15

Title Terms: VIDEO; AUDIO; SAMPLE; SYNCHRONISATION; SYSTEM; DISTRIBUTE;  
**ASSIGN** ; AUDIO; SAMPLE; RESPECT; DATA; STRUCTURE; RENDER; VIDEO; DATA;  
SYNCHRONOUS

Derwent Class: T01; W04

International Patent Class (Main): H03G-005/00

File Segment: EPI

16/5/21 (Item 21 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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014103520 \*\*Image available\*\*  
WPI Acc No: 2001-587734/200166

**Method of synchronizing text data with mpeg -1 multimedia stream and mpeg -1 decoder**

Patent Assignee: KOREA ELECTRONICS & TELECOM RES INST (KOEL-N)  
Inventor: CHUN Y S; KIM H N; SHIN G S  
Number of Countries: 001 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001037623	A	20010515	KR 9945259	A	19991019	200166 B
KR 336501	B	20020515	KR 9945259	A	19991019	200273

Priority Applications (No Type Date): KR 9945259 A 19991019

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2001037623	A		1	G11B-020/12	
KR 336501	B			G11B-020/12	Previous Publ. patent KR 2001037623

Abstract (Basic): KR 2001037623 A

NOVELTY - A method of synchronizing text data with **MPEG -1 multimedia stream** and an **MPEG -1 decoder** are to multiplex text information in an **MPEG -1 system stream** in which audio and video are already synchronized, thereby economically and efficiently performing synchronizing operation of the text information.

DETAILED DESCRIPTION - Text data are divided into each slide as a synchronization unit. A time stamp showing time when a corresponding slide has to be reproduced is provided at each slide. Each slide is encoded with a predetermined bit style (slide frame) to form a text bit row. A slide bit row of a text bit row is packetized. Each packet is **inserted** into a determined position of the MPEG-1 system bit row according to a reproducing hour time stamp of the slide included in the packet to generate an MPEG-1 system bit row synchronized with text information in a multiplexing process. The slide frame forming the text bit row includes slide **starting code**, slide length, reproducing hour information, slide data and additional data field.

pp; 1 DwgNo 1/10

Title Terms: METHOD; SYNCHRONISATION; TEXT; DATA; STREAM; DECODE

Derwent Class: T03

International Patent Class (Main): G11B-020/12

File Segment: EPI

Set	Items	Description
S1	209231	(STREAMS OR STREAMING? OR WEBCAST? OR STREAM OR STREAMED OR WEB() (CAST OR CASTING) OR REALTIME? OR REAL() TIME OR CONTINUOUS? OR NONSTOP? OR NON() STOP) (2N) (VIDEO? OR MULTIMEDIA? OR MULTI() MEDIA? OR MPG? OR MPEG?)
S2	21048	MPEG1 OR MPG1 OR (MPEG OR MPG) () (ONE OR 1)
S3	879130	ARBITRAR? OR RANDOM? OR PSEUDORANDOM? OR MIDSTREAM? OR MID-() STREAM?
S4	14261	(END OR BEGIN? OR START?) (N) (CODE? OR SIGNAL? OR BIT OR FRAME?)
S5	7730522	ASSIGN? OR INSERT? OR EMBED? OR INTEGRAT?
S6	71036	MEDIAPLAYER? OR MEDIA() PLAYER? OR WINDOWS() MEDIA?
S7	5	(S1 OR S2) (10N) S4
S8	0	(S1 OR S2) (S) S3 (S) S4 (S) S5
S9	0	S3 (S) S4 (S) S5 (S) S6
S10	0	S4 (2N) S5 (S) S6
S11	2	RD S7 (unique items)
S12	2	S11 NOT PD>20001117
S13	5563	(S1 OR S2) AND S3
S14	43	S13 AND S4
S15	28	S14 AND S5
S16	16	RD (unique items)
S17	17	S12 OR S16
S18	17	RD (unique items)
S19	14	S18 NOT PY>2000
S20	14	S19 NOT PD>20001117
File	275:	Gale Group Computer DB(TM) 1983-2004/Aug 30 (c) 2004 The Gale Group
File	47:	Gale Group Magazine DB(TM) 1959-2004/Aug 30 (c) 2004 The Gale group
File	75:	TGG Management Contents(R) 86-2004/Aug W4 (c) 2004 The Gale Group
File	636:	Gale Group Newsletter DB(TM) 1987-2004/Aug 30 (c) 2004 The Gale Group
File	16:	Gale Group PROMT(R) 1990-2004/Aug 30 (c) 2004 The Gale Group
File	624:	McGraw-Hill Publications 1985-2004/Aug 27 (c) 2004 McGraw-Hill Co. Inc
File	484:	Periodical Abs Plustext 1986-2004/Aug W3 (c) 2004 ProQuest
File	613:	PR Newswire 1999-2004/Aug 30 (c) 2004 PR Newswire Association Inc
File	813:	PR Newswire 1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File	141:	Readers Guide 1983-2004/Jul (c) 2004 The HW Wilson Co
File	370:	Science 1996-1999/Jul W3 (c) 1999 AAAS
File	696:	DIALOG Telecom. Newsletters 1995-2004/Aug 28 (c) 2004 The Dialog Corp.
File	553:	Wilson Bus. Abs. FullText 1982-2004/Jul (c) 2004 The HW Wilson Co
File	621:	Gale Group New Prod. Annou.(R) 1985-2004/Aug 30 (c) 2004 The Gale Group
File	674:	Computer News Fulltext 1989-2004/Aug W3 (c) 2004 IDG Communications
File	88:	Gale Group Business A.R.T.S. 1976-2004/Aug 27 (c) 2004 The Gale Group
File	369:	New Scientist 1994-2004/Aug W3 (c) 2004 Reed Business Information Ltd.
File	160:	Gale Group PROMT(R) 1972-1989 (c) 1999 The Gale Group
File	635:	Business Dateline(R) 1985-2004/Aug 28 (c) 2004 ProQuest Info&Learning
File	15:	ABI/Inform(R) 1971-2004/Aug 30 (c) 2004 ProQuest Info&Learning
File	9:	Business & Industry(R) Jul/1994-2004/Aug 27 (c) 2004 The Gale Group

File 13:BAMP 2004/Aug W4  
(c) 2004 The Gale Group  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Aug 30  
(c) 2004 Business Wire.  
File 647:CMP Computer Fulltext 1988-2004/Aug W4  
(c) 2004 CMP Media, LLC  
File 98:General Sci Abs/Full-Text 1984-2004/Jul  
(c) 2004 The HW Wilson Co.  
File 148:Gale Group Trade & Industry DB 1976-2004/Aug 30  
(c)2004 The Gale Group  
File 634:San Jose Mercury Jun 1985-2004/Aug 28  
(c) 2004 San Jose Mercury News

20/3,K/13 (Item 2 from file: 148)  
DIALOG(R) File 148:Gale Group Trade & Industry DB  
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08867116 SUPPLIER NUMBER: 18419535

**MPEG mysteries: a close-up on high-end service bureaus. (Motion Picture Experts Group, includes related articles)**

Ozer, Jan

CD-ROM Professional, v9, n7, p30(15)

July, 1996

ISSN: 1049-0833 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 8973 LINE COUNT: 00717

... rates. The output was compared with video compressed with the \$70,000 Sony RTE-3000A **Real Time MPEG - 1** Encoder system, and C-Cube's Jupiter **MPEG - 1 / MPEG-2** experimental system, another real-time encoder that originally cost \$150,000. A comprehensive...

...parameters, and yes, video quality. There was also a heck of a lot learned about **MPEG - 1** compression.

The line items in the features table present a snapshot of an industry, but...

...were used to distinguish the respective capabilities of the reviewed systems.

By way of background, **MPEG - 1** encoding is essentially a three-step process. The first step, capture, converts the information acquired...

...video is filtered and otherwise prepared to maximize compression efficiency and quality. Compression to the **MPEG - 1** format sequence is the final stage.

Rate Structure

Several service bureaus provide two service levels...not available from all providers.

Capture, Part A: The Objective Data

In the high-end **MPEG - 1** market, there are two kinds of capture systems: those that work with Serial Digital Input...

...contrast, traditional video capture cards digitize by isolating each pixel in a video frame and **assigning** a YUV value to that pixel, which is less accurate than a direct digital conversion...

...comparative screen shots since all the video examined :had been preprocessed and compressed to final **MPEG - 1** format.

Capture, Part B: The Subjective

The first step in all video editing or acquisition...

...color balance was assessed by looking at all 12 test clips, with a textual score **assigned** --like too dark or too bright--rather than a numerical score.

The second strategy for...

...anti-aliasing filters remove the ill effects from scaling down from 720 x 480 to **MPEG - 1** 's 352 x 240 resolution, commonly seen as the jaggies in diagonal lines.

Filtering can...prerequisite for MPEG compression, a process called telecining converts from 24 frames to 60 fields.

**MPEG - 1** is frame-based, not field-based, and a special process called inverse telecining, or 3...

...material--since this interrupts the telecining pattern. Failure to identify the correct pattern will duplicate **MPEG - 1** frames, creating jerky video.

All service bureaus claim to perform inverse telecining before compression, but...

...reference for all subsequent frames in the GOP and also as an entry point for **random** access into the MPEG file. For these reasons, only

intraframe compression is applied to I...artifact, illustrates why I frame placement, automatic or otherwise, is an important quality consideration in **MPEG - 1** compression.

No system can avoid artifacts all the time; artifacts are simply a fact of...

...of any special situations. Denon accepts raw Serial Digital Input in NTSC format only, delivering **MPEG - 1**, **MPEG - 1 .5**, and MPEG-2 compressed video.

#### INPUT/CAPTURE QUALITY

As mentioned above, Denon most closely...Heuris can support Betacam, D2, D3, 3/4" and SVHS input formats, and outputs in **MPEG - 1**, **MPEG - 1 .5**, and MPEG-2 formats.

#### FIDELITY/COLOR

Heuris' subjective input was simply too dark to...

...operator-optimized" system. The capture system accepts D-1 and Digital Betacam and outputs in **MPEG - 1** but not MPEG-2 format.

#### INPUT/CAPTURE QUALITY

For the most part, GTE's video...then counted frames until video quality was restored.

General Measures: Studio and Action Quality, Text **Insertion**

To test for studio and action quality, we first stepped through each video frame by...

...up were also visible at 30fps.

In the test video used to test for text **insertion** qualities, the clip had text slowly fading into the sequence. After the text was fully...

...was configured with Direct Video but not ActiveMovies, Microsoft's recently released Window's 95 **MPEG - 1** playback API.

We tested in both 24-bit mode and 16-bit mode. Because the...

...The Jupiter system is a reference design sold by C-Cube to licensees of their **MPEG - 1** and MPEG-2 chipsets. Built around a Sun SPARC station, the Jupiter system includes a video I/O board capable of SDIinput, audio and video **MPEG - 1** encoder boards, and on **MPEG - 1** decoder. We tested a system used by IBM's Atlanta-based service bureau to perform low-cost, **real -time MPEG - 1** and MPEG-2 encoding.

Key Tool: Mediamatics Player

None of the software MPEG players are...

...converts BMP and AVI files to MPEG format and provides the ability to multiplex separate **MPEG - 1** audio and video files into one **MPEG - 1** system **stream** and to de-multiplex an **MPEG - 1** system into separate **MPEG - 1** audio and video **streams**. **MPEG Album**, which catalogs and displays **MPEG - 1** files, and **MPEG Editor** (a bundled tool from VITEX Multimedia), which enables the concatenation of multiple **MPEG - 1** files into one long file with simple special effects, are also included ...I supplied them with all the content on Beta SP tape, a list of SMPTE **code start** and top points, and copies of the AVI versions of the videos on CD-ROM...

...a range of additional formats from 1-inch to Hi-8. IBM supports output in **MPEG - 1**, **MPEG - 1 .5**, and MPEG-2 formats.

IBM came close, but ...mixed in general quality tests. A slight pulsing was noticeable when playing back talking-head **video** in **real -time**, and high-action sequences exhibited some blockiness and occasional artifacts. In text-over-water tests...

...Beta and D-1 in NTSC, and PAL D-1. Output is currently limited to **MPEG - 1**, but the company soon plans to offer both **MPEG - 1 .5**, and MPEG-2. In testing, LaserPacific's capture adeptly walked a fine line of...encoder inputs are Digital Betacam, D-1, and D-2 captured raw, and output in **MPEG - 1**, **MPEG - 1 .5**, and MPEG-2 formats.

On the whole, PVR's tested performance proved decidedly bi...

20/3,K/14 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07566738 SUPPLIER NUMBER: 16391850 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**MPEG silicon puts quality video on PCs. (Motion Picture Experts Group video compression standard, personal computers) (includes related article)**  
Bursky, Dave  
Electronic Design, v42, n21, p51(8)  
Oct 14, 1994  
ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4193 LINE COUNT: 00324

... into desktop and portable computer systems. In fact, circuits that directly support the JPEG and **MPEG - 1** motion-video standards are already available from various sources. Moreover, chips implementing the higher-performance...

...being sampled or will be sampled early next year by a number of companies.

Although **MPEG - 1** decoding can be done in software on most high-end microprocessors, such as the Pentium...

...in real time still requires significant hardware support. A software-only implementation, as possible for **MPEG - 1**, often requires that the frame rate be limited to 15 frames/s or less, or...

...graphical-user-interface (GUI) accelerators. Even the first RISC microprocessors to incorporate hardware support for **MPEG - 1** multimedia decoding have been developed. These include the latest version of the PA-RISC from...

...to be used either on add-in cards or put onto system motherboards. Chips for **MPEG - 1** already are being offered by AT&T Microelectronics, SGS-Thomson Microelectronics, Zoran, and several others...

...to resize the video windows, are available from Genesis Microsystems, Philips Semiconductors, and others. Even **MPEG - 1** cores for ASIC designs have made it possible to craft totally customized solutions to lower...

...motion video. These chips join the ranks of MPEG providers such as AT&T Microelectronics, **Integrated** Information Technology, LSI Logic, SGS-Thomson, Zoran, and others, which have had early **MPEG - 1** - and MPEG-2-compatible products available since late last year. And that roster continues to...

...of video-delivery systems, both the STI4500A MPEG-2 chip and the previously released STI3500 **MPEG - 1** decoder have found homes in systems from Thomson's Consumer Electronics Div., Bell Atlantic, Compression...

...The MPEG-2 chip also requires minimal support to process the upper layers of the **MPEG** bit- **stream** syntax. It includes a **start - code** detector as well as registers that allow the tracking of time stamps. User-defined bit...

...chip supports the MPEG-2 pan-scan capability and has automatic 3/2 pulldown for **MPEG - 1** support and variable 3/2 pulldown for MPEG-2 support.

Operating at an internal clock...to the display interface. Internally, the chip is organized as a process pipeline that implements **MPEG - 1** and MPEG-2 decoding algorithms. An internal RISC CPU schedules the operations of each internal...

...vectors of full- or half-pel accuracy; as well as interlaced and non-interlaced input- **video streams**. And, like SGS-Thomson's STI3500A, the output filtering and display control section includes programmable...

...allowing it to work with various data formats. Furthermore, like the STI3500A, it has an **embedded** on-screen display function.

Fabricated in 0.5-[micrometer] CMOS and operating from a...

...monitoring of system functions. The chip delivers studio-quality MPEG-2 decoding and can perform **MPEG - 1** decoding. Set-top-box support includes channel switching, virtual channels, closed captioning, VCR anticopy schemes...

...than force designers to add separate components to implement a separate audio channel, designers of **MPEG - 1** subsystems now can get a single-chip solution, the C-Cube CL480. This just-released chip simplifies **MPEG - 1** systems by **integrating** the audio decoding onto the same chip as the **MPEG - 1** video decoder--an industry first. The IC has a proprietary 24-bit RISC engine that...

...to be added to systems for under \$50 in additional components.

The high level of **integration** in the CL480 eliminates the need for a separate microprocessor to demultiplex a system-level **MPEG** bit **stream** and synchronize the audio and video. As a result, both video subsystem cost and development...eliminates another chip typically used in CD digital audio players. Consequently, a full CD-based **MPEG - 1** audio and video subsystem would need just three chips in addition to the CL480: a...  
...scheme to bring the image up to full-screen displays.

Like the CL480, designers at **Integrated** Information Technology (IIT) have **integrated** all of the **MPEG - 1** functionality for video and audio decoding onto one chip...

...processor (MPP). When combined with memory and digital-to-analog converters, it provides a highly **integrated** solution for add-in cards or for use on system motherboards. The chip offers video playback at SIF resolution and two channels of **MPEG - 1** layer-1 or layer-2 audio. On-chip multitap filters provide **arbitrary** video scaling, video standards conversion, and post processing.

Furthermore, on-chip interlacing filters eliminate the...

...it does for MPEG-2 what the CL480 from C-Cube does for **MPG - 1**. The chip is fully compliant with the main profile/main level of the ISO DIS13818...

...top for GUI accelerators, the chip includes a multimedia port that allows users to feed **video streams** right to a display subsystem.

Special features in the OTI64107 include a video-masking capability... connector support for 16-bit motion video. Driver software available with the chip will support **MPEG - 1**, Cinepak, and Indeo decoding. Future plans call for two additional chips--one for full multimedia...

...support live video overlays through a feature-connector port to enhance standard digital video and **MPEG - 1** files.

One chip in the MVA family, the CL-GD5440, incorporates a CD Zoom feature...

...up to 10 (70 to 21 kbytes, respectively), depending on the image that's encoded.

**MPEG - 1** encoding is more complex than JPEG encoding because it uses differential prediction and exploits temporal...

...difference signal that helps reduce the amount of image data that must be stored.) Any **MPEG - 1** encoder also must have a decoder circuit built-in. When playback-only functionality TABULAR DATA...

...finalized by the standards organization in November of last year, provides better scalability, error resilience, **random** access to the data, and real-time aspect-ratio changes. Either progressive or interlaced scanning can be handled by MPEG-2, while **MPEG - 1** is limited only to progressive scanning. Furthermore, the MPEG-2 standard allows for real-time image transmission and full 780-by-480-pixel CCIR 601 images, while **MPEG - 1** typically used CD-ROM-based storage for the image files and produces a

· 352-by...

...rates can exceed 10 Mbits/s and data streams use discretely framed packets. In contrast, **MPEG - 1** systems hit a peak data rate of just 1.864 Mbits/s and employ a...

S1 164 AU=(METZGER R? OR METZGER, R?)  
 S2 99 AU=(MONROE, D? OR MONROE D?)  
 S3 2 S1 AND S2  
 S4 0 (S1 OR S2) AND (WEBCAST? OR WEB() (CAST OR CASTING OR CASTS)  
 OR MULTICAST? OR STREAMING OR STREAM OR STREAMS OR STREAMED)-  
 (N) (VIDEO? ? OR MULTIMEDIA? OR MULTI()MEDIA? OR AUDIO? OR MUS-  
 IC? OR RADIO? ?)  
 S5 3 (S1 OR S2) AND IC=G06F-015/173  
 S6 8 (S1 OR S2) AND IC=G06F-015?  
 S7 29 (S1 OR S2) AND (VIDEO? OR MULTIMEDIA? OR REALPLAYER? OR MP-  
 EG? OR MPG? OR MULTI()MEDIA? OR AUDIO? OR MUSIC?)  
 S8 6 S7 AND IC=(G06F? OR H04L?)  
 S9 13 S3 OR S5 OR S6 OR S8  
 S10 13 IDPAT (sorted in duplicate/non-duplicate order)  
 S11 12 IDPAT (primary/non-duplicate records only)  
 File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)  
 (c) 2004 JPO & JAPIO  
 File 348:EUROPEAN PATENTS 1978-2004/Aug W03  
 (c) 2004 European Patent Office  
 File 349:PCT FULLTEXT 1979-2002/UB=20040826,UT=20040819  
 (c) 2004 WIPO/Univentio  
 File 350:Derwent WPIX 1963-2004/UD,UM &UP=200455  
 (c) 2004 Thomson Derwent

*Investor  
 Search  
 Patents*

11/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016188776 \*\*Image available\*\*  
WPI Acc No: 2004-346662/200432  
XRPX Acc No: N04-277294

**File sending method for variable resolution video , involves defining files for selected raw data for transmitting files through specific network selected based on level of resolution**

Patent Assignee: METZGER R R (METZ-I); MONROE D A (MONR-I)

Inventor: **METZGER R R ; MONROE D A**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040068583	A1	20040408	US 2002266813	A	20021008	200432 B

Priority Applications (No Type Date): US 2002266813 A 20021008

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040068583	A1	45	G06F-015/16	

Abstract (Basic): US 20040068583 A1

NOVELTY - Files are defined for selected raw data. Specific network is selected to transmit files, based on level of resolution. Data is transmitted through selected network after converting data to selected resolution.

USE - For variable resolution **videos** and high resolution still images.

ADVANTAGE - Remote cameras or remote monitors can operate over low bit rate communication channels.

DESCRIPTION OF DRAWING(S) - The figure illustrates the flowchart for steps involved in file sending method.

pp; 45 DwgNo 4/29

Title Terms: FILE; SEND; METHOD; VARIABLE; RESOLUTION; **VIDEO** ; DEFINE; FILE; SELECT; RAW; DATA; TRANSMIT; FILE; THROUGH; SPECIFIC; NETWORK; SELECT; BASED; LEVEL; RESOLUTION

Derwent Class: W01; W02; W04

International Patent Class (Main): **G06F-015/16**

File Segment: EPI

11/5/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015159626 \*\*Image available\*\*  
WPI Acc No: 2003-220154/200321  
XRPX Acc No: N03-175581

**Surveillance system for public facility, has portable monitoring station  
with receiver which receives signals collected by remote cameras through  
wireless transmission system**

Patent Assignee: METZGER R (METZ-I); MONROE D A (MONR-I)

Inventor: **METZGER R ; MONROE D A**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020170064	A1	20021114	US 2001854033	A	20010511	200321 B

Priority Applications (No Type Date): US 2001854033 A 20010511

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020170064	A1		13	H04N-007/173	

Abstract (Basic): US 20020170064 A1

NOVELTY - The hubs (34A-34N) receive the signals representing images from the remote cameras (30A-30N). A portable monitoring station (33) having a receiver receives the signal transmitted by a transmitter associated with the hub through a wireless transmission system.

USE - For providing security to public facilities such as schools, banks, airports, arenas.

ADVANTAGE - Enhanced digitized security system is achieved which provides wireless, portable mounting and control capability.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the surveillance system.

Portable monitoring station (33)

Remote cameras (30A-30N)

Hubs (34A-34N)

pp; 13 DwgNo 1/4

Title Terms: SURVEILLANCE; SYSTEM; PUBLIC; FACILITY; PORTABLE; MONITOR;  
STATION; RECEIVE; RECEIVE; SIGNAL; COLLECT; REMOTE; CAMERA; THROUGH;  
WIRELESS; TRANSMISSION; SYSTEM

Derwent Class: T01; W01; W02; W06

International Patent Class (Main): H04N-007/173

File Segment: EPI

11/5/6 (Item 6 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012932816 \*\*Image available\*\*  
WPI Acc No: 2000-104663/200009  
XRPX Acc No: N00-080327

Video **conferencing switching control system for business network**  
Patent Assignee: ALBERT B (ALBE-I); DEBACKER R (DEBA-I); MCDOUGALL F  
(MCDO-I); METZGER R (METZ-I); OERKFITZ M (OERK-I)  
Inventor: ALBERT B; DEBACKER R; MCDOUGALL F; **METZGER R** ; OERKFITZ M  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5999966	A	19991207	US 97958253	A	19971007	200009 B

Priority Applications (No Type Date): US 97958253 A 19971007  
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5999966	A	70	G06F-013/00	

Abstract (Basic): US 5999966 A

NOVELTY - The CODECs (301-30n) have digital port and analog port for responding CODEC conference messages. A modem (42) accepts user control signals from control network (20) and desktop machine to generate adaptor conference messages and CODEC conference messages in accordance with user control signal to establish and direct **video** conference on the conference network.

DETAILED DESCRIPTION - The network conveys digital format **audio** and **video** data between digital and analog ports of CODECs. The crosspoint adaptor (32) communicates CODECs through **audio** and analog **video** pathways. The adaptor has summer circuit for mixing **audio** signals, VOX detection circuitry for generating VOX detection selection signal corresponding to **audio** signal of adaptor, microprocessor to control the adaptor, multiport **video** crosspoint switch to convey signals present on selected analog **video** signal pathways to several CODECs according to **audio** protocol and configuration signal. An INDEPENDENT CLAIM is also included for **video** conferencing switching control method.

USE - For controlling **video** switching of business conference network.

ADVANTAGE - As the **video** conferencing is performed by control network which is separate from conference network, participants having dissimilar hardware can join in **video** conference, thus straight forward and efficient system can be provided.

DESCRIPTION OF DRAWING(S) - The figure shows the **video** conferencing switching control system.

Control network (20)  
CODECs (301-30n)  
Crosspoint adaptor (32)  
Modem (42)  
pp; 70 DwgNo 2/45

Title Terms: **VIDEO** ; SWITCH; CONTROL; SYSTEM; BUSINESS; NETWORK  
Derwent Class: T01; W02; W04  
International Patent Class (Main): **G06F-013/00**  
File Segment: EPI

11/5/7 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012662793 \*\*Image available\*\*  
WPI Acc No: 1999-468898/199939  
XRPX Acc No: N99-350145

**Capturing, compressing and transmitting apparatus of visual image signal  
via digital transmission system in format and protocol capable of  
transmission over readily available transmission system to standard  
receiving station**

Patent Assignee: MONROE D (MONR-I); MONROE D A (MONR-I)

Inventor: MONROE D A ; MONROE D

Number of Countries: 064 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9935818	A2	19990715	WO 99US664	A	19990112	199939 B
AU 9922239	A	19990726	AU 9922239	A	19990112	199952
EP 1062801	A2	20001227	EP 99902202	A	19990112	200102
			WO 99US664	A	19990112	
US 20020109863	A1	20020815	US 986073	A	19980112	200256
			US 2002790381	A	20020411	
US 20040001214	A1	20040101	US 986073	A	19980112	200402
			US 2003336470	A	20030103	

Priority Applications (No Type Date): US 986073 A 19980112; US 2002790381 A  
20020411; US 2003336470 A 20030103

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 9935818	A2	E 129	H04N-000/00	
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Designated States (National): AL AU BA BB BG BR CA CN CU CZ EE GE GM HR  
HU ID IL IN IS JP KP KR LC LK LR LV MG MK MN MX NO NZ PL RO SG SI SK SL  
TR TT UA UZ VN YU

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

AU 9922239	A		H04N-000/00	Based on patent WO 9935818
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EP 1062801	A2	E	H04N-001/00	Based on patent WO 9935818
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Designated States (Regional): AT BE CH DE DK ES FI FR GB IT LI LU NL SE

US 20020109863	A1		H04N-001/00	Div ex application US 986073
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US 20040001214	A1		G06F-003/05	Div ex application US 986073
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Abstract (Basic): WO 9935818 A2

NOVELTY - A standard analog or digital camera (10) captures an image and the camera may be activated by a movement detector in a surveillance installation. The captured image is formatted from a binary bit map (20) for transmission via a group-III facsimile system and is encoded and compressed in a network (24), before passing to a group-III protocol transmission device (28). The output is transmitted to a receiving system (34) comprising a group-III receiver (36), a decoder and decompressor (38) and a binary bit map (40), generating a facsimile hard copy (42)

DETAILED DESCRIPTION - Independent claims are included for a method of capturing and converting analog image signal into digital signal, for a digital image recording retrieval sampling method and for a portable hand-held image processing system

USE - Image capture, compression and transmission in connection with land-line and wireless telephone systems

ADVANTAGE - Maximum flexibility with camera/converter/telephone or other device designed to modular configuration

DESCRIPTION OF DRAWING(S) - The drawing is a block diagram of basic facsimile camera configured to transmit image to standard hard copy medium

Digital camera (10)

Binary bit map (20)

Encoding-compressing network (24)

Group-III protocol transmission device (28)

Receiving system (34)

Receiver (36)

Binary bit map (40)

Hard copy (42)

pp; 129 DwgNo 1/9

Title Terms: CAPTURE; COMPRESS; TRANSMIT; APPARATUS; VISUAL; IMAGE; SIGNAL;  
DIGITAL; TRANSMISSION; SYSTEM; FORMAT; PROTOCOL; CAPABLE; TRANSMISSION;  
READY; AVAILABLE; TRANSMISSION; SYSTEM; STANDARD; RECEIVE; STATION

Derwent Class: W01; W02; W04

International Patent Class (Main): G06F-003/05; H04N-000/00; H04N-001/00

International Patent Class (Additional): G06F-013/00; **G06F-015/00**

File Segment: EPI

11/5/12 (Item 12 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00788697 \*\*Image available\*\*

DUAL PORT WIRELESS MODEM FOR CIRCUIT SWITCHED AND PACKET SWITCHED DATA  
TRANSFER

MODEM RADIO BI-PORT POUR TRANSFERT DE DONNEES EN COMMUTATION DE CIRCUIT ET  
EN COMMUTATION DE PAQUETS

Patent Applicant/Assignee:

XIRCOM INC, 2300 Corporate Center Drive, Thousand Oaks, CA 91320-1420, US  
, US (Residence), US (Nationality)

Inventor(s):

MONROE Daniel , 1220 Mountain Meadows Drive, Woodland Park, CO 80863, US

LINDSAY Charles, 18379 Lazy Summer Way, Monument, CO 80132, US

Legal Representative:

WOLFF Jason W (et al) (agent), Lyon & Lyon, LLP, 633 West Fifth Street,  
Suite 4700, Los Angeles, CA 90071-2066, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200122193 A2-A3 20010329 (WO 0122193)

Application: WO 2000US25682 20000920 (PCT/WO US0025682)

Priority Application: US 99400623 19990920; US 99444020 19991119; US  
99444044 19991119; US 2000524767 20000314

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

International Patent Class: G06F-013/10 ; G06F-013/12

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3653

English Abstract

A dual port external wireless modem is disclosed. According to one embodiment, the external wireless modem receives command and control information over a primary serial port (324), and real-time data over a secondary serial port (328). The primary serial port is further configured to receive packet switched data, such as short message service messages, while the secondary serial port is configured to receive circuit switched data. An RF transceiver (316) in the wireless modem modulates data and control received over the respective serial ports, preferably using a GSM protocol stack. According to an embodiment, the circuit switched and packet switched data received at the wireless modem can be simultaneously transmitted by the RF transceiver without interrupting the circuit switched data transfer, thereby avoiding a context switch and a loss of throughput.

French Abstract

La presente invention concerne un modem radio bi-port externe. Selon une realisation, ce modem radio externe recoit des informations de commande et de gestion via un port serie primaire, et les donnees temps reel via un port serie secondaire. Ce port serie primaire est par ailleurs configure de facon a recevoir des donnees de commutation de paquets tels que des messages SMS, alors que le port serie secondaire est configure de facon a recevoir des donnees de commutation de circuit. Un

emetteur-recepteur HF equipant le modem radio module les donnees et commandes recues via les ports serie respectifs, de preference en utilisant une pile de protocole GSM. Selon un mode de realisation, les donnees de commutation de circuit et de commutation de paquets recues au niveau du modem radio sont susceptibles d'emission simultanee par l'emetteur recepteur HF sans interruption du transfert de donnees par commutation de paquets, ce qui evite un basculement de contextes et une perte de debit.

Legal Status (Type, Date, Text)

Publication 20010329 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20010809 Late publication of international search report

Republication 20010809 A3 With international search report.

Examination 20010809 Request for preliminary examination prior to end of 19th month from priority date

Set	Items	Description
S1	1127	AU=(METZGER R? OR METZGER, R?)
S2	440	AU=(MONROE, D? OR MONROE D?)
S3	0	S1 AND S2
S4	0	(S1 OR S2) AND (WEBCAST? OR WEB() (CAST OR CASTING OR CASTS) OR MULTICAST? OR STREAMING OR STREAM OR STREAMS OR STREAMED) - (N) (VIDEO? ? OR MULTIMEDIA? OR MULTI()MEDIA? OR AUDIO? OR MUSIC? OR RADIO? ?)
S5	18	(S1 OR S2) AND (VIDEO? OR MULTIMEDIA? OR REALPLAYER? OR MP-EG? OR MPG? OR MULTI()MEDIA? OR AUDIO? OR MUSIC?)
S6	18	RD (unique items)
S7	12	S6 NOT PY>2000
File	2:INSPEC 1969-2004/Aug W4	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Aug W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2004/Aug W4	(c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W4	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Aug W4	(c) 2004 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2004/Aug W1	(c)2004 Japan Science and Tech Corp(JST)
File	148:Gale Group Trade & Industry DB 1976-2004/Aug 30	(c)2004 The Gale Group
File	636:Gale Group Newsletter DB(TM) 1987-2004/Aug 30	(c) 2004 The Gale Group
File	275:Gale Group Computer DB(TM) 1983-2004/Aug 30	(c) 2004 The Gale Group
File	674:Computer News Fulltext 1989-2004/Aug W3	(c) 2004 IDG Communications
File	647:CMP Computer Fulltext 1988-2004/Aug W3	(c) 2004 CMP Media, LLC

*Inventor  
Search  
NPL*